

I claim:

1. A combination of an orthodontic bracket and a corresponding arch, said bracket and said arch cooperating for influencing the position of a patient's teeth, said combination being characterized in that said bracket includes a first side adapted for being attached to a patient's tooth, a slot formed in said bracket and extending toward said first side, said slot including a plurality of planar surfaces disposed at fixed angles to each other; said arch having a plurality of surfaces disposed at angles which match said fixed angles of said slot whereby there is no loss of torque between said bracket and said arch.

2. The combination as defined in claim 1 wherein said slot includes a canted side that is slanted at an angle of 45° forming an angle at an inner portion of said slot.

3. The combination as defined in claim 2 wherein said angle is formed at an upper portion of said slot.

4. The combination as defined in claim 2 wherein said angle is formed at a lower portion of said slot.

5. The combination of claim 1 wherein said plurality of surfaces of said arch define a wedge for interfitting with said plurality of planar surfaces of said slot for precluding rotation of said arch within said slot.

6. The combination of claim 5 wherein said arch includes parallel top and bottom sides and an intermediate side slanted at 45° with respect to said parallel top and bottom sides.

7. The combination of claim 6 wherein said intermediate side intersects with said top side.

8. The combination of claim 6 wherein said intermediate side intersects with said bottom side.

9. The combination of claim 1 wherein said arch in cross-section forms a pentagon.